

B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) AND ECONOMICS PROGRAMME
(Admission to Year 1 in AY2014-2015)

AU REQUIREMENT TABLE (Professional Internship)

STUDY YEAR	EEE MAJOR REQUIREMENTS		ECONS MAJOR REQUIREMENTS		GER-CORE (GC)	TOTAL
	CORE (C)	MAJOR PRESCRIBED ELECTIVE (PE)	ECONOMICS CORE (EC)	ECONOMICS ELECTIVES (EP)		
1	18		15		4	37
2	29		6	3	1	39
3	22		4		2	28
4	4	9		18	3	34
5	8	10		18	2	38
TOTAL	81	19	25	39	12	176

CURRICULUM STRUCTURE

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE ^A
		LEC	TUT	LAB	TOTAL			
EEEC YEAR 1 – SEMESTER 1								
FE1008 COMPUTING	C	2	1	1	4	3		
MH1810 MATHEMATICS I	C	2	1	0	3	3		
PH1011 PHYSICS *	C	2	1	0	3	3		H2 PHYSICS
FE1073 AN INTRODUCTION TO ENGINEERING & PRACTICES	C	0	0	0	0	1		
HW0188 ENGINEERING COMMUNICATION I	GC	0	2	0	2	2		HW0001
GC0001 INTRODUCTION TO SUSTAINABILITY: MULTIDISCIPLINARY APPROACHES AND SOLUTIONS (ONLINE)	GC	0	0	0	0	1		
HE1001 MICROECONOMIC PRINCIPLES	EC	2	1	0	3	3		
HE1002 MACROECONOMIC PRINCIPLES	EC	2	1	0	3	3		
TOTAL		10	7	1	18	19		
* STUDENTS WITHOUT H2 PHYSICS ARE REQUIRED TO READ PH1012 PHYSICS A (4 AUs), INSTEAD OF PH1011.								
EEEC YEAR 1 – SEMESTER 2								
EE1002 PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGRG	C	3	1	0	4	4		PH1011/PH1012
EE1071 EEE LABORATORY 1	C	0	0	3	3	1		
MH1811 MATHEMATICS 2	C	2	1	0	3	3		
ML0001 ABSOLUTE BASICS FOR CAREER (ONLINE)	GC	0	0	0	0	1		
HE1005 INTRO TO PROBABILITY AND STATISTICAL INFERENCE	EC	2	1	0	3	3		
HE2001 INTERMEDIATE MICROECONOMICS	EC	2	1	0	3	3		
HE2002 INTERMEDIATE MACROECONOMICS	EC	2	1	0	3	3		HE1002
TOTAL		11	5	3	19	18		
EEEC YEAR 2 – SEMESTER 1								
EE1003 INTRODUCTION TO MATERIALS FOR ELECTRONICS	C	2	1	0	3	3		
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	E2001L	
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	E2004L	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4		MH1811
HY0001 ETHICS AND MORAL REASONING (ONLINE)	GC	0	0	0	0	1		
HE2005 PRINCIPLES OF ECONOMETRICS	EC	2	1	0	3	3		HE1005
TOTAL		13	5	0	18	19		
EEEC YEAR 2 – SEMESTER 2								
EE2002 ANALOG ELECTRONICS	C	3	1	0	4	4	E2002L	EE2001
EE2003 SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	E2003L	EE1002
EE2007 ENGINEERING MATHEMATICS II	C	3	1	0	4	4		MH1811
EE2073 INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2		
HE3021 INTERMEDIATE ECONOMETRICS	EC	2	1	0	3	3		HE2005
ECONOMICS ELECTIVE 1	EP	2	1	0	3	3		
TOTAL		13.5	5.5	3	22	20		

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE^
		LEC	TUT	LAB	TOTAL			
EEEE YEAR 3 – SEMESTER 1								
EE2008 DATA STRUCTURES & ALGORITHMS	C	3	1	0	4	4	E2008L	
EE2010 SIGNALS AND SYSTEMS	C	3	1	0	4	4	E2010L	MH1810 & MH1811
EE3001 ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	E3001L	EE2007^
EE3080 DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2		
ET0001 ENTERPRISE AND INNOVATION (ONLINE)	GC	0	0	0	0	1		
HE4010 SINGAPORE ECONOMY IN A GLOBALIZED WORLD	EC	2	2	0	4	4		
TOTAL		11.5	5	6	22	19		
EEEE YEAR 3 – SEMESTER 2								
EE3179 PROFESSIONAL INTERNSHIP	C	20 WEEKS, FULL-TIME				8		
ML0002 CAREER POWER-UP (ONLINE)	GC	0	0	0	0	1		
TOTAL		-	-	-	-	9		
EEEE YEAR 4 – SEMESTER 1								
EE3002 MICROPROCESSORS	C	3	1	0	4	4	E3002L	
EE3XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3		REFER TO WEBSITE
EE3XXX TECHNICAL ELECTIVE 2	P	2	1	0	3	3		
HW0288 ENGINEERING COMMUNICATION II	GC	0	2	0	2	2		HW0188
ECONOMICS ELECTIVE 2	EP	2	1	0	3	3		
ECONOMICS ELECTIVE 3	EP	2	1	0	3	3		
TOTAL		11	7	0	18	18		
EEEE YEAR 4 – SEMESTER 2								
EE4XXX TECHNICAL ELECTIVE 1	P	2	1	0	3	3		REFER TO WEBSITE
EE0040 ENGINEERS & SOCIETY	GC	2	1	0	3	3		YEAR 4 CLASSIFICATION
ECONOMICS ELECTIVE 4	EP	2	1	0	3	3		
ECONOMICS ELECTIVE 5	EP	2	1	0	3	3		
ECONOMICS ELECTIVE 6	EP	2	1	0	3	3		
ECONOMICS ELECTIVE 7	EP	2	1	0	3	3		
TOTAL		12	6	0	18	18		
EEEE YEAR 5 – SEMESTER 1								
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE
EE4XXX DESIGN ELECTIVE 1	P	1	0	3	4	2		
EE4XXX TECHNICAL ELECTIVE 2	P	2	1	0	3	3		
ECONOMICS ELECTIVE 8	EP	2	1	0	3	3		
ECONOMICS ELECTIVE 9	EP	2	1	0	3	3		
ECONOMICS ELECTIVE 10	EP	2	1	0	3	4		
TOTAL		9	4	15	28	19		
EEEE YEAR 5 – SEMESTER 2								
EE4080 FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE
EE4XXX DESIGN ELECTIVE 2	P	1	0	3	4	2		
EE4XXX TECHNICAL ELECTIVE 3	P	2	1	0	3	3		
ECONOMICS ELECTIVE 11	EP	2	1	0	3	4		
ECONOMICS ELECTIVE 12	EP	2	1	0	3	4		
TOTAL		7	3	15	25	17		
TOTAL ACADEMIC UNITS REQUIRED FOR GRADUATION								176

Website Reference:

- <http://www.eee.ntu.edu.sg/programmes/currentstudents/undergraduate/undergraduatefull-time/pages/courseinformation.aspx>

B.ENG (ELECTRICAL & ELECTRONIC ENGINEERING) AND ECONOMICS PROGRAMME
(Admission to Year 1 in AY2014-2015)

AU REQUIREMENT TABLE (Professional Attachment)

STUDY YEAR	EEE MAJOR REQUIREMENTS		ECONS MAJOR REQUIREMENTS		GER-CORE (GC)	UNRESTRICTED ELECTIVE (UE)	TOTAL
	CORE (C)	MAJOR PRESCRIBED ELECTIVE (PE)	ECONOMICS CORE (EC)	ECONOMICS ELECTIVES (EP)			
1	18		15		4		37
2	25		6	3	1		35
3	22	3	4		2	3	34
4	4	6		18	5	1	34
5	8	10		18			36
TOTAL	77	19	25	39	12	4	176

CURRICULUM STRUCTURE

COURSE CODE AND TITLE	TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE ^A
		LEC	TUT	LAB	TOTAL			
EEEC YEAR 1 – SEMESTER 1								
FE1008 COMPUTING	C	2	1	1	4	3		
MH1810 MATHEMATICS I	C	2	1	0	3	3		
PH1011 PHYSICS *	C	2	1	0	3	3		H2 PHYSICS
FE1073 AN INTRODUCTION TO ENGINEERING & PRACTICES	C	0	0	0	0	1		
HW0188 ENGINEERING COMMUNICATION I	GC	0	2	0	2	2		HW0001
GC0001 INTRODUCTION TO SUSTAINABILITY: MULTIDISCIPLINARY APPROACHES AND SOLUTIONS (ONLINE)	GC	0	0	0	0	1		
HE1001 MICROECONOMIC PRINCIPLES	EC	2	1	0	3	3		
HE1002 MACROECONOMIC PRINCIPLES	EC	2	1	0	3	3		
TOTAL		10	7	1	18	19		
* STUDENTS WITHOUT H2 PHYSICS ARE REQUIRED TO READ PH1012 PHYSICS A (4 AUs), INSTEAD OF PH1011.								
EEEC YEAR 1 – SEMESTER 2								
EE1002 PHYSICS FOUNDATION FOR ELECTRICAL & ELECTRONIC ENGRG	C	3	1	0	4	4		PH1011/PH1012
EE1071 EEE LABORATORY 1	C	0	0	3	3	1		
MH1811 MATHEMATICS 2	C	2	1	0	3	3		
ML0001 ABSOLUTE BASICS FOR CAREER (ONLINE)	GC	0	0	0	0	1		
HE1005 INTRO TO PROBABILITY AND STATISTICAL INFERENCE	EC	2	1	0	3	3		
HE2001 INTERMEDIATE MICROECONOMICS	EC	2	1	0	3	3		
HE2002 INTERMEDIATE MACROECONOMICS	EC	2	1	0	3	3		HE1002
TOTAL		11	5	3	19	18		
EEEC YEAR 2 – SEMESTER 1								
EE1003 INTRODUCTION TO MATERIALS FOR ELECTRONICS	C	2	1	0	3	3		
EE2001 CIRCUIT ANALYSIS	C	3	1	0	4	4	E2001L	
EE2004 DIGITAL ELECTRONICS	C	3	1	0	4	4	E2004L	
EE2006 ENGINEERING MATHEMATICS I	C	3	1	0	4	4		MH1811
HY0001 ETHICS AND MORAL REASONING (ONLINE)	GC	0	0	0	0	1		
HE2005 PRINCIPLES OF ECONOMETRICS	EC	2	1	0	3	3		HE1005
TOTAL		13	5	0	18	19		
EEEC YEAR 2 – SEMESTER 2								
EE2002 ANALOG ELECTRONICS	C	3	1	0	4	4	E2002L	EE2001
EE2007 ENGINEERING MATHEMATICS II	C	3	1	0	4	4		MH1811
EE2073 INTRODUCTION TO EEE DESIGN & PROJECT	C	0.5	0.5	3	4	2		
HE3021 INTERMEDIATE ECONOMETRICS	EC	2	1	0	3	3		HE2005
ECONOMICS ELECTIVE 1	EP	2	1	0	3	3		
TOTAL		10.5	4.5	3	18	16		

COURSE CODE AND TITLE		TYPE	NUMBER OF HOURS PER WEEK				AU	LAB CODE	PRE-REQUISITE/ CO-REQUISITE ^A	
			LEC	TUT	LAB	TOTAL				
EEEE YEAR 3 – SEMESTER 1										
EE2003	SEMICONDUCTOR FUNDAMENTALS	C	3	1	0	4	4	E2003L	EE1002	
EE2008	DATA STRUCTURES & ALGORITHMS	C	3	1	0	4	4	E2008L		
EE2010	SIGNALS AND SYSTEMS	C	3	1	0	4	4	E2010L	MH1810 & MH1811	
ET0001	ENTERPRISE AND INNOVATION (ONLINE)	GC	0	0	0	0	1			
HE4010	SINGAPORE ECONOMY IN A GLOBALIZED WORLD	EC	2	2	0	4	4			
TOTAL			11	5	0	16	17			
EEEE YEAR 3 – SEMESTER 2										
EE3001	ENGINEERING ELECTROMAGNETICS	C	3	1	0	4	4	E3001L	EE2007 ^A	
EE3080	DESIGN & INNOVATION PROJECT	C	0.5	0	6	6	2			
EE3XXX	TECHNICAL ELECTIVE 1	P	2	1	0	3	3		REFER TO WEBSITE	
ML0002	CAREER POWER-UP (ONLINE)	GC	0	0	0	0	1			
UNRESTRICTED ELECTIVE 1		UE	3	1	0	4	4			
ECONOMICS ELECTIVE 2		EP	2	1	0	3	3			
TOTAL			10.5	4	6	20	17			
EEEE YEAR 3 – SPECIAL TERM										
EE3176	PROFESSIONAL ATTACHMENT	C	10 WEEKS, FULL-TIME				4			
EEEE YEAR 4 – SEMESTER 1										
EE3002	MICROPROCESSORS	C	3	1	0	4	4	E3002L		
EE3XXX	TECHNICAL ELECTIVE 2	P	2	1	0	3	3			
HW0288	ENGINEERING COMMUNICATION II	GC	0	2	0	2	2		HW0188	
ECONOMICS ELECTIVE 3		EP	2	1	0	3	3			
ECONOMICS ELECTIVE 4		EP	2	1	0	3	3			
ECONOMICS ELECTIVE 5		EP	2	1	0	3	3			
TOTAL			11	7	0	18	18			
EEEE YEAR 4 – SEMESTER 2										
EE4XXX	TECHNICAL ELECTIVE 1	P	2	1	0	3	3		REFER TO WEBSITE	
EE0040	ENGINEERS & SOCIETY	GC	2	1	0	3	3		YEAR 4 CLASSIFICATION	
ECONOMICS ELECTIVE 6		EP	2	1	0	3	3			
ECONOMICS ELECTIVE 7		EP	2	1	0	3	3			
ECONOMICS ELECTIVE 8		EP	2	1	0	3	3			
TOTAL			10	5	0	15	15			
EEEE YEAR 5 – SEMESTER 1										
EE4080	FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE	
EE4XXX	DESIGN ELECTIVE 1	P	1	0	3	4	2			
EE4XXX	TECHNICAL ELECTIVE 2	P	2	1	0	3	3			
ECONOMICS ELECTIVE 9		EP	2	1	0	3	3			
ECONOMICS ELECTIVE 10		EP	2	1	0	3	4			
TOTAL			7	3	15	25	16			
EEEE YEAR 5 – SEMESTER 2										
EE4080	FINAL YEAR PROJECT	C	0	0	12	12	4		REFER TO WEBSITE	
EE4XXX	DESIGN ELECTIVE 2	P	1	0	3	4	2			
EE4XXX	TECHNICAL ELECTIVE 3	P	2	1	0	3	3			
ECONOMICS ELECTIVE 11		EP	2	1	0	3	4			
ECONOMICS ELECTIVE 12		EP	2	1	0	3	4			
TOTAL			7	3	15	25	17			
TOTAL ACADEMIC UNITS REQUIRED FOR GRADUATION									176	